



## PATENT ABSTRACTS OF JAPAN

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**IIMI MICHIO****(54) NONWOVEN FABRIC FOR PLANE FASTENER  
AND ITS PRODUCTION**

two small folds in each loop.

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**(57) Abstract:**

**PROBLEM TO BE SOLVED:** To obtain a nonwoven fabric for a plane fastener having excellent tensile shear strength by subjecting a latent-crimp filament nonwoven web to partial hot-pressing treatment and then to relaxed heat-treatment to form folding loops on the fibers of the area free from the hot-pressing treatment.

**SOLUTION:** Two components consisting of a polypropylene having a melting point of 157°C and an ethylene/propylene copolymer having a melting point of 144°C are subjected to conjugated spinning in parallel or eccentric core-sheath conjugation state, the spun fiber is cooled and taken up with an air sucker to form a web on a moving deposition apparatus and the web is partially pressed with a hot embossing roll; etc., to form hot-pressed areas. The pressed web is heat-treated in relaxed state at a temperature lower than the melting point of the above copolymer to develop the latent crimp and form folding loops 4 on the fiber of the areas 3 free from the hot-bonding treatment and obtain a nonwoven fabric 1 for a plane fastener having at least

